MOL. PHOTOCHEM., 4(4), pp. 573-577 (1972)

Index to Volume 4

A

Acetone, deuterium effect and triplet state relaxation in, 453-471
Acetophenone, deuterium effect and triplet state relaxation in, 453-471
photophysical processes, 369-415
triplet, and norbornene, reversible energy transfer between, 473-481
Acetylpyridine, photoreduction, 227-234
Alkanes, photolysis, far-ultraviolet, 39-55
Almgren, M., 213-216, 327-334
Anthracene, isomerization of stilbenes, effect of on, 315-325
Aryloxy-s-triazines, photo-Smiles rearrangements, 335-351
Astronomy, comet atmospheres, photochemistry in, 133-151
interstellar molecules, photochemistry of, 153-170
Ausloos, P., 39-55

B

Balzani, V., 205-211, 559-572
Base stacking interaction, 1,1'-polymethylene-bis-5-alkyluracils in solution, 189-203
Benzaldehyde, photophysical processes, 369-415
Benzophenone, deuterium effect and triplet state relaxation in, 453-471
phosphorescence, 213-216
phosphorescence in carbon tetrachloride, 447-452
relaxation, studied by picosecond spectroscopy, 353-367
Biacetyl, triplet yield and fluorescence lifetime of, 327-334
Bicyclo-[2.2.1]-heptane-2-ones, reduction by sodium borohydride, 535-540
Biological systems, American Society for Photobiology, formation, 239-240
photosensitization and photoreactivation, 113-129
Biradicaloids, 257 ff.
Bis(glycinato)platinum(II), photochemical behavior, 205-211
Blackwell, D. S. L., 171-188
Blanchi, J. P., 223-234
Bleaching, photobleaching of xanthene and thiazine dyes, 57-92
Bolletta, F., 205-211
Borkman, R. F., 453-471
Boué, S., 93-106

Busch, G. E., 353-367

C

Campbell, R. O., 315-325
Carbonyl compounds, organic, photophysical processes, 369-415
Carroll, F. A., 541-543
Chromium(III) complexes, photochemistry, electronic energy transfer, and luminescence of, 559-563
Cobalt(III) complexes, photochemistry, electronic energy transfer, and luminescence of, 564-565
Comets, atmospheres, photochemistry in, 135-151
Copper complexes, photochemistry, electronic energy transfer, and luminescence, 570
Cryotriboluminescence, 541-543
2,4-Cycloheptadienone, 437-445

D

De Mayo, P., 171-188
Detergents, micelle-forming, fluorescent probe to study solutions of, 545-550
Deuterium effect, in ketones, 453-471
trans-1,2-Dicyanoethylene, fluorescence quenching of bicyclo-[2.2.1]-heptan-2-ones by, 535-540
Dienes, linear conjugated, photochemistry, 93-106
2,3-Dimethyl-1,3-butadiene, photochemistry, 99-103
trans-2,3-Dimethyl-1,3-pentadiene, photochemistry, 103-105
1,3-Dimethylthymine, new photoproduct in presence of carbon tetrachloride, 513-517
photocycloaddition of,to in situ generated ethylene, 507-511
Dioxane, esr study, 417-425

E

Electron spin resonance, tetrahydrofuran and dioxane, 417-425
Energy barriers, correlation diagrams for prediction of, 287-314
Ethylene, in situ generated, photocycloaddition of 1,3-dimethylthymine to, 507-511

F

Farrington, G., 535-540
Fluorescence quenching, bicyclo-[2.2.1]-heptan-2-ones, by trans-1,2-dicyanoethylene, 535-540
Fluorescence yield, biacetyl, 327-334
Fluorescent probe, micelle-forming detergents, study of properties of, 545-550

G

Gano, J. E., 527-533
Ginsburg, P. H., 217-221, 235-238
Glass filters, sharp-cut and band-pass, for 252-800 nm, 551-557
Gleria, M., 205-211
Golankiewicz, K., 189-203
Goodman, L., 369-415

H

Hautala, R. R., 545-550
Heicklen, J., 483-500
Herkstroeter, W. G., 551-557

Hydrogen abstraction, by a π,π^*-ketone triplet, 427-435
valerophenone, 501-505

I

Iridium complexes, photochemistry, electronic energy transfer, and luminescence, 565-568
Iron complexes, photochemistry, electronic energy transfer, and luminescence of, 563-564
Isomerization, piperylene, 519-526

J

Jackson, W. M., 135-151

K

Ketones, deuterium effect and triplet state relaxation in, 453-471
sodium borohydride reductions of, 535-540
Ketones, heterocyclic, photoreduction, self-sensitized, 223-234
Kleopfer, R., 513-517
Koizumi, M., 57-92
Koyanagi, M., 369-415

L

Lamola, A. A., 107-133
Lanthanide complexes, photochemistry, electronic energy transfer, and luminescence, 570
Lau, K. S. Y., 315-325
Lee, C.-G., 427-435
Lewis, F. D., 501-505
Liao, C. C., 171-188
Liu, R. S. H., 315-325
Loutfy, R. O., 171-188
Luminescence, coordination compounds, 559-572
thiocarbonyl compounds, 171-188

M

Maeno, N., 335-351
Maleski, R., 507-511, 513-517
Mathias, E., 483-500
Matsui, K., 335-351
McIntosh, A. R., 417-425
Metal carbonyls, photochemistry, electronic energy transfer, and luminescence, 571
2-Methyl-1,3-butadiene, photochemistry, 97-99
Michl, J., 243-255, 257-286, 287-314
Moggi, L., 559-572
Molybdenum complexes, photochemistry, electronic energy transfer, and luminescence, 569-570
Morrison, H., 507-511, 513-517
Murcia, D., 513-517

N

1,4-Naphthoquinone, photoreduction of in benzene, 217-221
Niemczyk, M., 535-540
Norbornene, acetophenone triplet, reversible energy transfer between, 473-481

O

Optical filters, sharp-cut and band-pass glass filters for 252-800 nm, 551-557
Organic photochemistry, 257-286
Osmium complexes, photochemistry, electronic energy transfer, and luminescence, 565-568

Oxetane, from norbornene and triplet acetophenone, 473-481

P

Paszyc, S., 171-188
1,3-Pentadiene, photochemistry, 94-97
9-Phenylanthracene, isomerization of stilbenes, effect of on, 315-325
4-Phenylbenzophenone, photoreduction, 427-435
Phosphorescence, benzophenone, aqueous solutions, 213-216
benzophenone, in carbon tetrachloride, 447-452
Photobleaching, oxidative and reductive, of xanthene and thiazine dyes, 57-92
Photocycloaddition, of 1,3-dimethylthymine to in situ generated ethylene, 507-511
Photodimerization, 1,1'-polymethylene-bis-5-alkyluracils in solution, 189-203
Photoejection dynamics, 1-37
Photolysis, of alkanes, in far-ultraviolet, 39-55
gas-phase, of pyridine, 483-500
Photoreactivation, 113-129
Photoreduction, 1,4-naphthoquinone in benzene, 217-221
4-phenylbenzophenone, 427-435
self-sensitized, of heterocyclic ketones, 223-234
Photosensitization, apparatus for quantitative studies, 235-238
in biological systems, 107-133
Photo-Smiles rearrangements, 335-351
Piperylene, isomerization quantum yields at high concentrations, 519-526
Platinum complexes, photochemistry, electronic energy transfer, and luminescence, 565-568
1,1'-Polymethylene-bis-5-alkyluracils, base stacking interaction and photodimerization in solutions of, 189-203
Pyridine, photolysis, gas-phase, 483-500

Q

Quantitative studies, apparatus, 235-238

R

Reactivity, photochemical of large molecules, 243-255
Rennert, J., 217-221, 235-238
Rentzepis, P. M., 353-367
Rhodium complexes, photochemistry, electronic energy transfer, and luminescence, 565-568
Ruthenium complexes, photochemistry, electronic energy transfer, and luminescence of, 565-568

S

Schroeter, S. H., 473-481
Schuster, D. I., 437-445, 447-452
Shizuka, H., 335-351
Solvent viscosity effect, anthracene-T_2-sensitized isomerization of stilbenes, 315-325
Spectroscopy, picosecond, relaxation of benzophenone studies by, 353-367
sharp-cut and band-pass glass

filters, for 252-800 nm, 551-557
Srinivasan, R., 93-106
Stern-Volmer equation, generalized, 527-533
Stief, L. J., 153-170
Stilbenes, isomerization of, sensitized by anthracene, 315-325
Strekowski, L., 189-203

T

Tainsky, M. A., 437-445
Tetrahydrofuran, esr study, 417-425
Thiazine dyes, photobleaching, oxidative and reductive, 57-92
Thiocarbonyl compounds, luminescence, 171-188
Traynard, P., 223-234
Triboluminescence, temperature-change-induced, 541-543
Triplet yield, biacetyl, 327-334
Turro, N. J., 427-435, 535-540, 545-550

U

Uranium complexes, photochemistry, electronic energy transfer, and luminescence, 570-571
Usui, F., 57-92

V

Valerophenone, γ-hydrogen abstraction, activation energy for, 501-505
Vesley, G. F., 519-526

W

Wan, J. K. S., 417-425
Weil, T. M., 447-452
Wolfram complexes, photochemistry, electronic energy transfer, and luminescence, 569-570

X

Xanthene dyes, photobleaching, oxidative and reductive, 57-92

Z

Zare, R. N., 1-37